

# AKAI

# GX-630D

STEREO  
TAPE DECK

Three Head, Three Motor GX Recording and Playback System. New AC Servo Motor for direct capstan drive. Feather-touch Full Direct Function Change Control. 10-1/2" reel capacity.





# GX Head, AC Servo Motor, Direct Capstan Drive System. Wow and Flutter reduced to 0.06%, Distortion less than 0.5%, S/N Ratio better than 57 dB!



## GX RECORDING AND PLAYBACK HEADS FOR HIGHER QUALITY AND LONGER LASTING PERFORMANCE

As is well known, the core of Akai's GX Head is made of crystal ferrite and is mounted and set in glass. The superior magnetic properties of the head material and special processing allowed the formation of a perfectly lineal shallow head gap, an acute head surface angle contour, and focusing of the magnetic field into a sharp oblong radius. This focused field system eliminates undue equalization, minimizes high frequency loss, and achieves a wider dynamic range. Further, sound drop-out is eliminated, head-to-tape contact and signal-to-noise ratio improved, and the hardness of the head materials provide dust free and wear free characteristics for longer lasting performance. The GX-630D exhibits a clear frequency response range to 25,000 Hz with Akai LN-150-7 Tape.

## 3 MOTOR DRIVE SYSTEM INCLUDES NEW AC SERVO MOTOR FOR DIRECT CAPSTAN DRIVE

This model employs a 3 motor drive system with a new CPG (center pole generated) AC Servo Motor for direct capstan drive. The quality of this outstanding motor plus the elimination of rubber belts and flywheels results in the realization of a 0.06% Wow and Flutter factor. Two eddy current outer rotor motors complete the drive system for completely stable performance and excellent tone quality. Impedance Roller and Tension Levers also add to tape travel stability.

## 10-1/2" REEL CAPACITY

A Reel Size Selector and standard accessory 10-1/2" reel hub adapters facilitate the use of 5, 7, or 10-1/2" reels. Further, this model features "quick tension" wherein ideal take-up and back tension is applied to the reels at the beginning of tape start for smooth operation regardless of reel size.

## QUICK PAUSE CONTROL

When Pause Mode is effected, the tape remains in contact with the heads and the pinch roller separates from the capstan only slightly so that when the Pause Lever is released, re-start is fast and smooth. Pause Control is especially convenient for editing tape.

## FEATHER-TOUCH FULL DIRECT FUNCTION CHANGE CONTROL

Feather-touch Full Direct Function Change Control for speedy mode change. This feature includes direct function change to recording mode for easy add-on recording.

## MICROPHONE AND LINE MIXING O.K.

A built-in mic-line mixing circuit and independent Microphone and Line Input Level Controls facilitate easy sound mixing from separate sources.

## DUAL MONITORING

A Tape/Source Monitor Switch enables comparison of source signals with the recording being made for more professional recording results.

## AUTOMATIC STOP FOR OPERATING SAFETY

The Automatic Stop/Tension Arm drops at the end of the tape, activating an automatic stop mechanism which completely stops reel movement for operating safety.

## OUTPUT LEVEL CONTROL

Can be adjusted to correspond with amplifier input enabling connection with any amplifier.

**OTHER OUTSTANDING FEATURES** include a Remote Control Jack for remote control of all operating functions as well as absentee recording with optional accessory Remote Control Unit RC-17, a Tape Selector Switch for use of Low Noise or Wide Range Tape, and a convenient lift-up type head cover for easy head block accessibility.

## STANDARD ACCESSORIES

Connection Cords ..... 1 set  
10-1/2" Reel Hub Adapters ..... 1 set  
Empty Reel ..... 1  
Spare Fuses ..... 1 set  
Operator's Manual ..... 1

\* Spare fuses not included with CEE, CSA, UL and LA models.

## TECHNICAL DATA

**Track System** ..... 4 track 2 channel stereo/monaural system  
**Reel Capacity** ..... Up to 10-1/2" reel  
**Tape Speed** ..... 7-1/2 and 3-3/4 ips ( $\pm 0.7\%$ )  
**Wow and Flutter** ..... Less than 0.06% RMS at 7-1/2 ips  
Less than 0.09% RMS at 3-3/4 ips  
**Frequency Response** .... 30 Hz to 25,000 Hz ( $\pm 3$  dB) at 7-1/2 ips  
using Akai LN-150-7 Tape  
30 Hz to 19,000 Hz ( $\pm 3$  dB) at 3-3/4 ips  
using Akai LN-150-7 Tape  
**Distortion** ..... Less than 0.5% (1,000 Hz "0" VU)  
at 7-1/2 ips  
**Signal-to-Noise Ratio** .... Better than 57 dB (measured via tape  
with peak recording level of +6 VU)  
**Erase Ratio** ..... Better than 70 dB  
**Bias Frequency** ..... 100 kHz  
**Heads** ..... (3): One GX playback, One GX recording,  
and one erase head  
**Motors** ..... (3): One AC Servo motor for capstan  
drive, two eddy current motors for  
reel drive  
**Fast Forward and  
Rewind Time** ..... 120 seconds using a 2,400 ft. tape  
**Output Jacks** ..... Line (2): 0.775 V (0 VU)  
Phone (1): 30 mV/8 ohms  
**Input Jacks** ..... Microphone (2): 0.25 mV  
Line (2): 70 mV  
**Din Jack** ..... 0.5 V/2.5 mV  
**Semi Conductors** ..... Transistors 50, Diodes 57  
**Power Requirements** .... U.S.A. and Canada Models: 120 V, 60 Hz  
only  
CEE Models: 220 V, 50 Hz only  
Other Models: 100 V to 240 V, 50/60 Hz  
(Switchable)  
**Power Consumption** .... 100 W (CEE), 90 W (CSA)  
**Dimensions** ..... 465 (H) x 440 (W) x 240 (D) mm  
(18.3 x 17.4 x 9.4")  
**Weight** ..... 19 kg. (41.8 lbs)

\* For improvement purposes, specifications and design are subject to change without notice.

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